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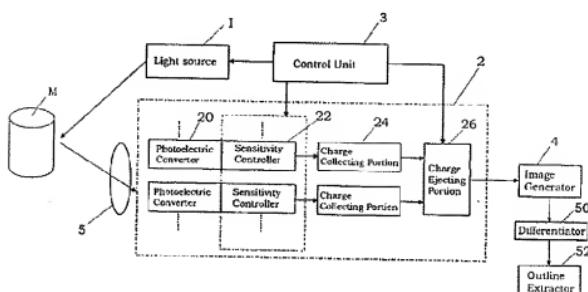
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(54) Title: IMAGE PROCESSING DEVICE



(57) Abstract: An image processing device for generating both of a distance image and a gray image from an electrical output of a light receiving element on the precondition that a light intensity-modulated at a modulation frequency is irradiated into a target space. This device has image generator for generating the distance image having pixel values, each of which provides a distance value between an object in the target space and the device, in accordance with a phase difference between the irradiated light and the received light, and the gray image having pixel values, each of which provides a gray value of the object, in accordance with an intensity of the received light. By use of an output of the image generator, an outline of the object can be extracted.

WO 2006/011674 A1



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